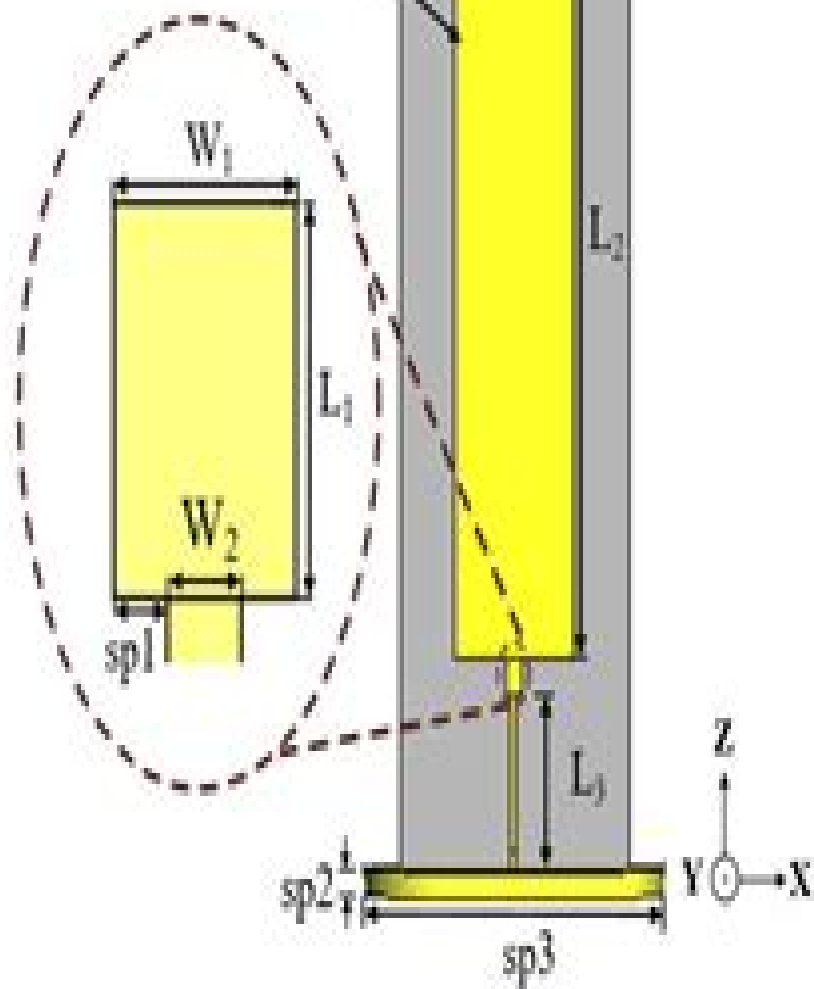
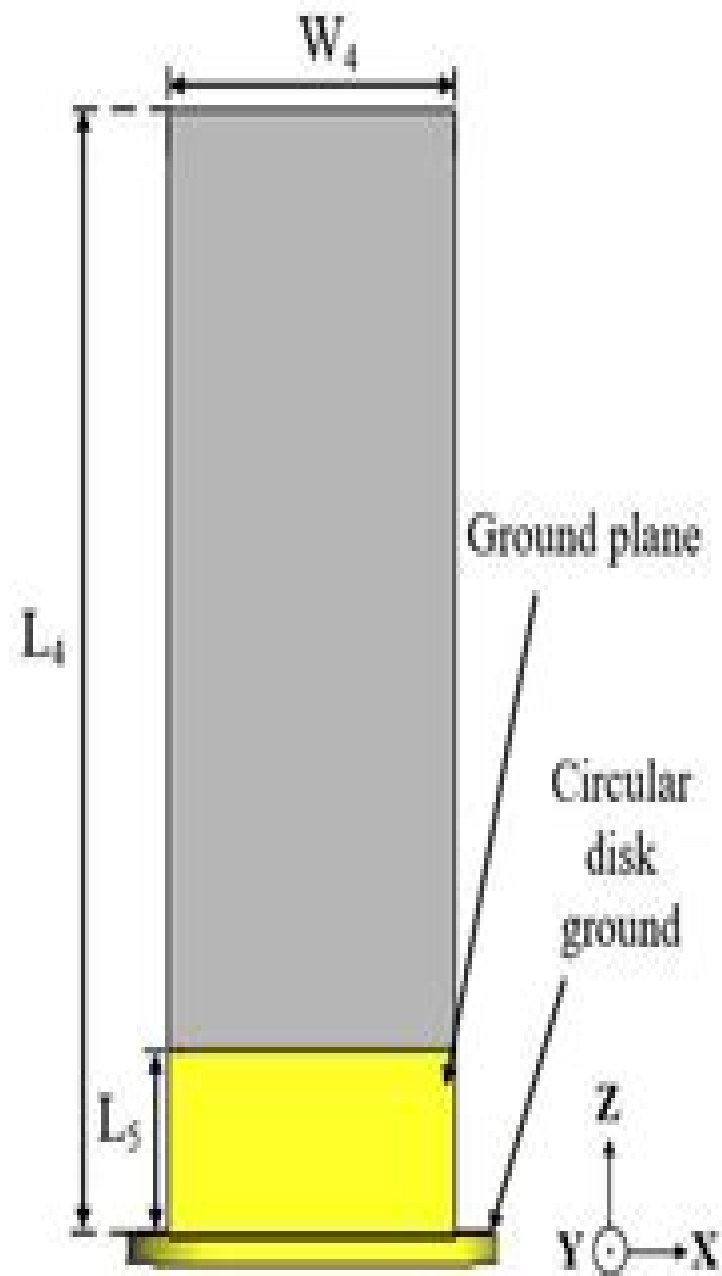


Monopole  
radiator



(a)



(b)

# Bandwidth Improvement Of Monopole Antenna Using Aascit

**Andrew John Poggio**



## **Bandwidth Improvement Of Monopole Antenna Using Aascit:**

**Pattern-bandwidth Optimization of the Sleeve Monopole Antenna** Andrew John Poggio, 1964      **Automated Design and Optimization of Wire Antennas Using Genetic Algorithms** Derek Scott Linden, 1997

A Genetic Algorithm GA has been used in conjunction with the Numerical Electromagnetics Code Version 2 NEC2 to create and optimize atypical wire antenna designs with impressive characteristics. Antenna design parameters are encoded into an ordered series of numbers and or symbols analogous to a biological chromosome. A cost function that quantifies how well a design meets the engineer's specifications is created. The GA uses these to generate and evaluate a population of designs. The most successful designs are then promoted and mixed through mating and mutation while poor designs are removed. This process difficult to trap in local minima continues until convergence criteria are met generally yielding excellent designs with no user intervention or initial guesses. Three antennas have been optimized: a monopole loaded with a modified folded dipole, the Yagi antenna and the crooked wire genetic antenna. Prior study of the loaded monopole had shown hemispherical coverage was possible. The GA found an asymmetric loaded monopole with an average variation in gain over the hemisphere of only 0.4 dB confirmed by measurement. GA optimized Yagi antennas surpassed the gain of conventional Yagis by about 1 dB improvement also confirmed by measurement. The GA designed a Yagi with a beamwidth of 50 deg, 60 deg sidelobes nearly 25 dB down and a 14% bandwidth specifications difficult to achieve using conventional techniques. The crooked wire genetic antenna is several wires joined in series; locations and lengths are determined by the GA. Optimization for hemispherical coverage with right hand circular polarization RHCP produced highly unusual shapes unrealizable using a conventional approach. RHCP hemispherical coverage was achieved with less than 4 dB variation. Measurements verify the results.

Monopole Antennas Melvin M. Weiner, 2003-04-22. This text provides discussion of the modelling, testing and application of monopole antennas in free space and in proximity to flat earth including topics on propagation, tuning, stability, antenna range, design, noise, ground based high frequency arrays and electrically small antennas.

An Investigation of Planar Monopole Antennas for Modern Portable Applications, 2001. Current trends in portable and mobile communications are towards greater numbers of different systems often with wider bandwidths operating within a single device. Antenna systems for these devices need to be capable of operating over a wide frequency range or multiple frequency bands typically between 900 MHz and 6 GHz e.g. GSM, IMT 2000, Wi-Fi and WiMax. Portable and mobile applications also require antennas to be optimised with respect to radiation pattern, efficiency and physical size. A greater understanding of the characteristics and design challenges of broadband and multi band antennas forms the core motivation of this work. The antennas developed as part of this work are all related to the planar monopole antenna: classical planar monopole antennas and printed planar monopoles. A number of techniques to extend the impedance bandwidth of the planar monopole antenna such as bevelling were applied producing impedance bandwidth ratios up to 10:1 in some cases suitable for ultra wideband applications and multi band responses in others.

Techniques to reduce the antenna size or profile were also implemented These included the use of short circuits between the antenna and its groundplane and folding These techniques achieved significant reductions in antenna height up to 50% or in lower edge frequency typically 30% A novel corrugation technique was also used to reduce antenna height by up to 30% Improvements in the omni directionality and stability of the radiation characteristics have been achieved by modifying the antenna geometry Very low profile printed planar monopoles implemented in both microstrip fed and single sided co planar waveguide fed formats are also investigated Fractional impedance bandwidths in excess of 100% as well as multi band configurations with potential reconfigurable applications were achieved with these antennas

**Experimental Study of Electrically Thick Monopole Antennas** Sandor Holly,1969 The purpose of this research has been to investigate the behavior of electrically thick cylindrical antennas by obtaining experimental data on a physics counterpart of a theoretical dipole antenna model The experimental apparatus consisting of a monopole antenna driven over an image plane by means of a coaxial line was designed to allow for the measurement of antenna characteristics over a 0.1

**A Study of LF Top-loaded Monopole Antennas Using Numerical Modeling Techniques** Riaz Mahmud,1987

**Multifunctional and Multiband Planar Antennas for Emerging Wireless Applications** Jayshri Kulkarni,Chow-Yen Desmond Sim,Jawad Yaseen Siddiqui,Anisha M. Apte,Ajay Kumar Poddar,Ulrich L. Rohde,2023-12 This book relates specifically to innovative antenna designs and structures that are coupled to laptop computer devices keeping in mind to design miniaturized antenna which can be integrated inside systems It provides insight on designed miniaturized monopole antennas for laptop computers with dual triple band operations performance enhancement wider bandwidth and increased data rate without using any additional hardware lumped elements or vias It includes design considerations for developing antennas for portable devices alongwith case studies Features Includes designed miniaturized monopole antennas for laptop computers with dual triple band operations performance enhancement wider bandwidth and increased data rate Explores the design of equivalent circuit diagrams of the proposed antenna Presents integration of designed antennas into laptop for the validation of desired outcome Identifies and discusses technical challenges and new results related to the design of 5G WLAN antennas Contains graphical illustration design steps detail analysis of each step along with proper justification This book is aimed at graduate students and researchers in electrical electronic engineering antennas and wireless communication systems

**Bandwidth Improvement for Simultaneous Transmit and Receive (STAR) Patch Antennas with Parasitic Patches** Kuei Jih Lu,2019 Two types of microstrip patch antennas for simultaneous transmit and receive STAR applications are proposed with enhanced bandwidth using different kinds of parasitic patches for 2.4-2.5 GHz ISM band Both designs use a 180 hybrid coupler and place the receive Rx and transmit Tx ports on different substrate layers to maintain the isolation between the Rx and Tx signals for the STAR requirement The first design has four spiral shape parasitic patches around a radiating patch shared by Tx and Rx ports The second design uses separate radiating patches for Rx and Tx and there are additional

rectangular parasitic patches underneath the Tx patches The first antenna possesses 98 MHz Rx bandwidth and 113 MHz Tx bandwidth from simulation and 80 MHz Rx bandwidth and 115 MHz Tx bandwidth from measurement The second antenna has a simulated bandwidth more than 110 MHz covering 2.4 GHz and 2.5 GHz for both transmission and reception The measured Rx bandwidth of the second design is 155 MHz from 2.485 GHz to 2.64 GHz and the measured Tx bandwidth has two operating bands one from 2.445 GHz to 2.515 GHz and the other from 2.585 GHz to 2.665 GHz The two designs achieve polarization differences about 20 dB to 40 dB in their radiation patterns They also have more than 2.5 dB gain and 50 dB isolation between 2.4 and 2.5 GHz Such isolation allows the antenna to be used for STAR communication

Achieving Wide Bandwidth Electrically Small Antennas Using Internal Non-Foster Elements Ryan Thomas Cutshall, 2013 Electromagnetic equations pertaining to electrically small dipole antennas and electrically small monopole antennas with small circular ground planes are reviewed Two electrically small antenna designs are analyzed numerically and the results are compared The first is a frequency agile version of the two dimensional 2D planar Egyptian axe dipole EAD antenna The second is its three dimensional 3D counterpart The frequency agile performance characteristics of both the 2D and 3D EAD designs are studied and compared The potential for non Foster augmentation to achieve large instantaneous fractional impedance bandwidths is detailed for each antenna In addition details are given on how to run frequency agile simulations in both ANSYS HFSS and Agilent's ADS Details are also provided on how to generate an antenna's non Foster

*Bandwidth Enhancement Techniques for Low-profile Antennas, Theory and Experiment* Hugh Kennedy Smith, 1991 This thesis describes techniques for bandwidth enhancement for low profile antennas The first method involves the use of coupled resonators In particular two cavity backed slot antennas are coupled through an aperture in a common wall One cavity backed slot antenna of the coupled antenna system is driven This coupled antenna system is analyzed using two different approaches The first approach employs the cavity model theory in conjunction with a variational procedure Both experimental and theoretical results are presented and there is good agreement between the two The second approach in the analysis of the coupled cavity backed slot antenna used the boundary integral method This method which was previously introduced for the analysis of planar microwave circuits has been extended to the analysis of thin microwave antennas The results from the boundary integral method compare reasonably well with the measured data The boundary integral method is also used to predict the performance of various microstrip antennas These microstrip patch antennas in general can have arbitrary perimeters load slots and shorting pins Both theoretical and experimental results are given The coupled resonator approach is shown to produce greater than two fold increases in operating bandwidth For even wider bandwidths a second method is demonstrated This second method uses a log periodic array of dual feed microstrip patch antennas Experimental results are provided for this array

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